Samsung Techwin CCTV A1 Camera
Protocol Function Table
(SCC-C6XXX, SCC-C7XXX, SCP-2XXX, SCP-3XXX)

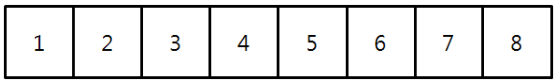
Fireware Ver : CAM (2.XX,3.XX), ALM : 2.XX

History

Manufacturing Date	Version	Description
2010.07.28	1.0	Unified version first made
2010.11.15	1.1	AD PROTOCOL FULL is added.

[PROTOCOL SETTING]

1. SWITCH



2. SETTING

(0:↓,1:↑)					Protocol	HALF/FULL
1	2	3	4	7		
0	0	0	0	0	SAMSUNG_E	HALF
1	0	0	0	0	SAMSUNG_E	FULL
0	1	0	0	0	VICON	HALF
1	1	0	0	0	PANASONIC	HALF
0	0	1	0	0	PANASONIC	FULL
0	1	1	0	0	AD	FULL
1	1	1	0	0	BOSCH	HALF
0	0	0	1	0	PELCO-P	HALF
1	0	0	1	0	GE	HALF
1	0	1	1	0	PELCO-D	HALF
0	1	1	1	0	PELCO-D	FULL
1	1	1	1	0	VICON	FULL
0	0	0	0	1	SAMSUNG_T	HALF
1	0	0	0	1	HONEYWELL	HALF

[BAUD-RATE SETTING]

You can set Baud rate using the SWITCH 5,6

1. SAMSUNG_E, SAMSUNG_T

Baud Rate	SWITCH5	SWITCH6
38400BPS	OFF	OFF
19200BPS	ON	OFF
9600BPS	OFF	ON
4800BPS	ON	ON

2. VICON

Baud Rate	SWITCH5	SWITCH6
19200BPS	OFF	OFF
9600BPS	ON	OFF
4800BPS	OFF	ON
600BPS	ON	ON

3. BOSCH

Baud Rate	SWITCH5	SWITCH6
38400BPS	OFF	OFF
9600BPS	ON	OFF
2400BPS	OFF	ON
1200BPS	ON	ON

4. PANASONIC, PELCO-P

Baud Rate	SWITCH5	SWITCH6
19200BPS	OFF	OFF
9600BPS	ON	OFF
4800BPS	OFF	ON
2400BPS	ON	ON

5. AD

Baud Rate	SWITCH 5	SWITCH 6
9600BPS	OFF	OFF
4800BPS	ON	OFF
2400BPS	OFF	ON
1200BPS	ON	ON

6. PELCO-D(※ Only 2400BPS is supported.)

Baud Rate	SWITCH5	SWITCH6
2400BPS	ON	ON

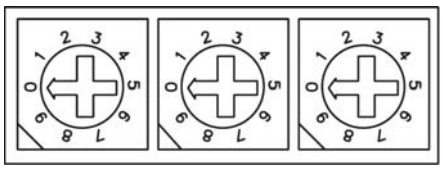
7. GE

Baud Rate	SWITCH5	SWITCH6
9600BPS	OFF	ON
4800BPS	ON	ON

8. HONEYWELL

Baud Rate	5	6
38400BPS	OFF	OFF
19200BPS	ON	OFF
9600BPS	OFF	ON
4800BPS	ON	ON

[ADDRESS SETTING]



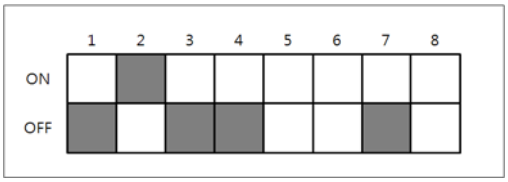
You can specify between 0 and 255 for address, where the hundreds digit is first Switch, the ten digit with second switch, and the ones digit with third switch.

1. PROTOCOL ID: 2, 15

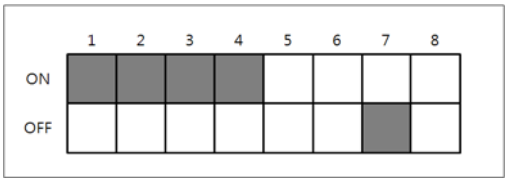
1) Maker : VICON HALF(2)/FULL(15)

2) Dip Switch : Set 1,2,3,4,7 pin of SWICH. (To Select Protocol)

VICON **HALF** Duplex



VICON **FULL** Duplex



※ Refer to SCC-C6XXX, SCC-C7XXX, SCP-2XXX, SCP-3XXX User's Manual

SWITCH 5~6 : Baud Rate

Baud Rate	SWITCH 5	SWITCH 6
19200BPS	OFF	OFF
9600BPS	ON	OFF
4800BPS	OFF	ON
※1 600BPS	ON	ON

3) Function

	VICON (VP8328, V1300X-DVC)	SCC-C6XXX, SCC-C7XXX SCP-2XXX, SCP-3XXX
1	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
2	RUN MODE : PP ENTER → #(1~89) → PP ENTER	Go to Preset (1 ~ 89)
3	PGM MODE : PP ENTER → #(1~89) → PP ENTER	Save Preset (1 ~ 89)
4	RUN MODE : PP ENTER → #(90) → PP ENTER	Menu On/Off
5	RUN MODE : PP ENTER → #(91) → PP ENTER	Menu Mode : ENTER Key
6	RUN MODE : PP ENTER → #(92) → PP ENTER	Scan 1 On/Off
7	RUN MODE : PP ENTER → #(93) → PP ENTER or RUN MODE : A/P	Auto Pan 1 On/Off
8	RUN MODE : PP ENTER → #(94) → PP ENTER	Pattern1 On/Off
9	RUN MODE : PP ENTER → #(95) → PP ENTER	Pattern 2 On/Off
10	RUN MODE : PP ENTER → #(96) → PP ENTER	Pattern 3 On/Off
11	RUN MODE : PP ENTER → #(98) → PP ENTER	Alarm Reset
12	RUN MODE : PP ENTER → #(99) → PP ENTER	Camera Reset
13	Joystick Up	Menu Mode: ↑ Key
14	Joystick Down	Menu Mode: ↓ Key
15	Joystick Left	Menu Mode: ← Key
16	Joystick Right	Menu Mode: → Key

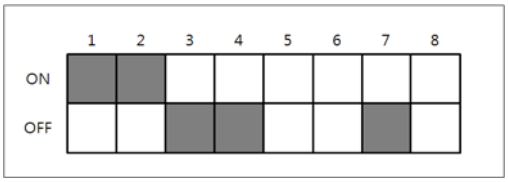
※1 600 BPS is recommended when you install more than 128 cameras.

2. PROTOCOL ID : 3, 4

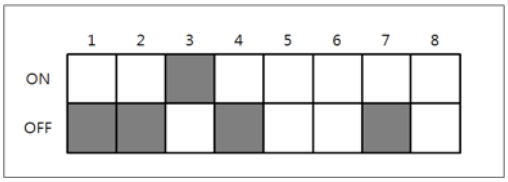
1) Maker : PANASONIC HALF(3) / FULL(4)

2) Dip Switch : Set 1,2,3,4,7 pin of SWICH. (To Select Protocol)

PANASONIC **HALF** Duplex



PANASONIC **FULL** Duplex



※ Refer to SCC-C6XXX, SCC-C7XXX, SCP-2XXX, SCP-3XXX User's Manual

SWITCH 5~6 : Baud Rate

Baud Rate	SWITCH 5	SWITCH 6
19200BPS	OFF	OFF
9600BPS	ON	OFF
4800BPS	OFF	ON
2400BPS	ON	ON

3) Function1

	PANASONIC (WV-CU161 Controller)	SCC-C6XXX, SCC-C7XXX SCP-2XXX, SCP-3XXX
1	CAM ADDR	CAMERA ADDR Select
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	#(1~54) → PRESET SET	Go to Preset (1 ~ 54)
4	CAMERA SETUP or #(55) → PRESET SET	Camera Menu On/Off
5	PRESET SET or # → PRESET SET Holding Cam setup(program) or #(56) → PRESET SET	Menu Mode : Enter Key
6	#(58) → PRESET SET	Autopan 1 On/Off
7	#(59) → PRESET SET	Scan 1 On/Off
8	#(60) → PRESET SET	Alarm Reset
9	#(61) → PRESET SET	Pattern 1 On/Off
10	#(62) → PRESET SET	Pattern 2 On/Off
11	#(63) → PRESET SET	Pattern 3 On/Off
12	#(64) → PRESET SET	Camera Reset
13	#(1) → AUTO	Auto Pan 1 On
14	#(2) → AUTO	Scan 1 On
15	Patrol Play	Pattern 1 On
16	#(3) → AUTO	Alarm Reset
17	Joystick Up (2)	Menu Mode: '↑' Key
18	Joystick Down (8)	Menu Mode: '↓' Key
19	Joystick Left (4)	Menu Mode: '←' Key
20	Joystick Right (6)	Menu Mode: '→' Key

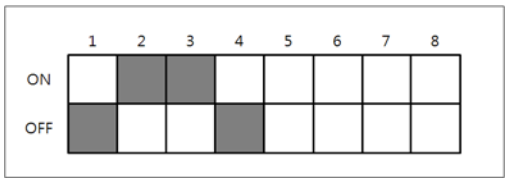
4) Function2 (Buad Rate : SCC-C6XXX, SCC-C7XXX, SCP-2XXX, SCP-3XXX support 19200 BPS or 9600 BPS)

	PANASONIC WV-CU550C Matrix Switcher	SCC-C6XXX, SCC-C7XXX SCP-2XXX, SCP-3XXX
1	CAM ADDR	CAMERA ADDR Select
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	#(1 ~ 54) → Preset/AF	Go to Preset (1 ~ 54)
4	CameraSetup Menu(D4) → F1 or #(55) → Preset/AF	Camera Menu On/Off
5	CAM(SET) or #(56) → Preset/AF	Menu Mode : Enter Key
6	#(58) → Preset/AF	Auto Pan 1 On/Off
7	#(59) → Preset/AF	Scan 1 On/Off
8	#(60) → Preset/AF	Alarm Reset
9	#(61) → Preset/AF	Pattern 1 On/Off
10	#(62) → Preset/AF	Pattern 2 On/Off
11	#(63) → Preset/AF	Pattern 3 On/Off
12	#(64) → Preset/AF	Cam Reset
13	Pan Action(B1) → F1	Auto Pan 1 On
14	Pan Action(B1) → 2 → F1	Scan 1 On
15	PatrolLearn(B4) → F1	Pattern 1 On
16	Joystick Up (2)	Menu Mode: '↑' Key
17	Joystick Down (8)	Menu Mode: '↓' Key
18	Joystick Left (4)	Menu Mode: '←' Key
19	Joystick Right (6)	Menu Mode: '→' Key

3. PROTOCOL ID : 6

1) Maker : AD Full

2) Dip Switch : Set 1,2,3,4 pin of SWICH. (To Select Protocol)



※ Refer to SCC-C6XXX/7XXX User's Manual

SWITCH 5~6 : Baud Rate

Baud Rate	SWITCH 5	SWITCH 6
9600BPS	OFF	OFF
4800BPS	ON	OFF
2400BPS	OFF	ON
1200BPS	ON	ON

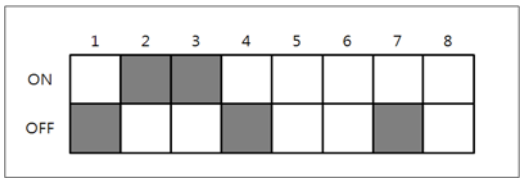
3) Function

	AD (AD2079-1, AD2150, AD2083-02B-1)	SCC-C6XXX/7XXX
1	#(1~32)→CAMERA	Camera Address Set
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	Key switch (PROGRAM) #(1~16) → SHOT	Set Preset
4	Key switch (OPERATE) #(1~16) → SHOT	Go To Preset
5	Key switch (OPERATE) #(69) → SHOT → #(70) → SHOT	Scan 1 On / Off
6	Key switch (OPERATE) #(69) → SHOT → #(71) → SHOT	Auto Pan 1 On / Off
7	Key switch (OPERATE) #(70) → SHOT	Pattern 1 On/Off
8	Key switch (OPERATE) #(71) → SHOT	Pattern 2 On/Off
9	Key switch (OPERATE) #(72) → SHOT	Pattern 3 On/Off
10	IRIS OPEN(holding) → FOCUS FAR(holding) → ZOOM WIDE	Menu On
11	IRIS CLOSE(holding) → FOCUS NEAR	Menu Off
12	FOCUS FAR	Menu Mode : Enter Key
13	Key switch (OPERATE) #(66) → SHOT	Alarm Reset
14	Key switch (PROGRAM) #(65) → SHOT	Camera Reset
15	Joystick Up	Menu Mode : ↑ Key
16	Joystick Down	Menu Mode : ↓ Key
17	Joystick Left	Menu Mode : ← Key
18	Joystick Right	Menu Mode : → Key

4. PROTOCOL ID : 7

1) Maker : BOSCH HALF

2) Dip Switch : Set 1,2,3,4,7 pin of SWICH. (To Select Protocol)



※ Refer to SCC-C6XXX, SCC-C7XXX, SCP-2XXX, SCP-3XXX User's Manual

SWITCH 5~6 : Baud Rate

Baud Rate	SWITCH 5	SWITCH 6
38400BPS	OFF	OFF
9600BPS	ON	OFF
2400BPS	OFF	ON
1200BPS	ON	ON

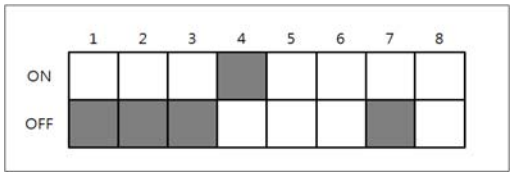
3) Function

	BOSCH (LTC8200/50, LTC5136/60, LTC5138)	SCC-C6XXX, SCC-C7XXX SCP-2XXX, SCP-3XXX
1	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
2	SET → #(1~22) → ENTER	Set Preset(1~22)
3	SHOT → #(1~22) → ENTER	Go To Preset(1~22)
4	SHOT → #(23) → ENTER	Menu On/Off
5	SHOT → #(24) → ENTER	Menu Mode : Enter Key
6	SHOT → #(26) → ENTER	Pattern 1 On/Off
7	SHOT → #(27) → ENTER	Pattern 2 On/Off
8	SHOT → #(28) → ENTER	Pattern 3 On/Off
9	SHOT → #(29) → ENTER	Scan 1 On/Off
10	SHOT → #(30) → ENTER	Auto Pan 1 On/Off
11	SHOT → #(31) → ENTER	Alarm Reset
12	SHOT → #(32) → ENTER	Cam Reset
13	ON → #(8) → ENTER	Scan 1 On
14	ON → #(2) → ENTER	Auto Pan 1 On
15	Joystick Up	Menu Mode : ↑ Key
16	Joystick Down	Menu Mode : ↓ Key
17	Joystick Left	Menu Mode : ← Key
18	Joystick Right	Menu Mode : → Key

5. PROTOCOL ID : 8

1) Maker : PELCO-P HALF

2) Dip Switch : Set 1,2,3,4,7 pin of SWICH. (To Select Protocol)



※ Refer to SCC-C6XXX, SCC-C7XXX, SCP-2XXX, SCP-3XXX User's Manual

SWITCH 5~6 : Baud Rate

Baud Rate	SWITCH 5	SWITCH 6
9600BPS	ON	OFF
4800BPS	OFF	ON
2400BPS	ON	ON

When you connect with KBD-300, only 4800 BPS

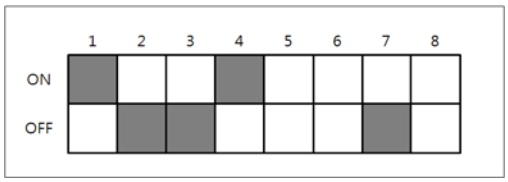
3) Function

	PELCO-P (KBD-300, CM6700 Matrix)	SCC-C6XXX, SCC-C7XXX SCP-2XXX, SCP-3XXX
1	#(1~16)→CAM	Camera Address Set
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	#(1~90)→PRESET(hold for two seconds)	Set Preset(1~90)
4	#(1~90)→PRESET	Go To Preset(1~90)
5	#(99)→PRESET	Auto Pan 1 On
6	#(96)→PRESET	Auto Pan 1 / Scan 1 Off
7	#(91)→PRESET or PATTERN	Pattern 1 On/Off
8	#(92)→PRESET	Pattern 2 On/Off
9	#(93)→PRESET	Pattern 3 On/Off
10	#(98)→PRESET	Scan 1 On
11	#(95)→PRESET	Menu On/Off
12	IRIS OPEN	Menu Mode : Enter Key
13	#(97)→PRESET	Alarm Reset
14	#(94)→PRESET	Camera Reset
15	Joystick Up	Menu Mode : ↑ Key
16	Joystick Down	Menu Mode : ↓ Key
17	Joystick Left	Menu Mode : ← Key
18	Joystick Right	Menu Mode : → Key

6. PROTOCOL ID : 9

1) Maker : GE HALF

2) Dip Switch : Set 1,2,3,4,7 pin of SWICH. (To Select Protocol)



※ Refer to SCC-C6XXX, SCC-C7XXX, SCP-2XXX, SCP-3XXX User's Manual

SWITCH 5~6 : Baud Rate

Baud Rate	SWITCH 5	SWITCH 6
9600BPS	OFF	ON
4800BPS	ON	ON

3) Function1

	GE(KTD-404 Keyboard - 4800BPS only)	SCC-C6XXX, SCC-C7XXX SCP-2XXX, SCP-3XXX
1	#(001~249)	Camera Address Set`
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	AUTO FOCUS	One AF
4	SET (Hold for 3sec) → 9, 5, 1, Seq → 2 (Rcvr) → 001 ~ 249 Camera Number → 2 (Presets) → Position #(00~53)	Set Preset(0~53)
5	SET → #(00~53)	Go To Preset(0~53)
6	AUTO or SET → #61	Auto Pan 1 On/Off
7	SET → #57	Pattern 1 On/Off
8	SET → #58	Pattern 2 On/Off
9	SET → #59	Pattern 3 On/Off
10	SET → #60	Scan 1 On/Off
11	SET → #54	Menu On/Off
12	SET → #55	Menu Mode : Enter Key
13	SET → #62	Alarm Reset
14	SET → #63	Camera Reset
15	Joystick Up	Menu Mode : ↑ Key
16	Joystick Down	Menu Mode : ↓ Key
17	Joystick Left	Menu Mode : ← Key
18	Joystick Right	Menu Mode : → Key

4) Function2

	GE(KT405 Keyboard - 9600BPS only)	SCC-C6XXX, SCC-C7XXX SCP-2XXX, SCP-3XXX
1	#(0~255) → SET	Camera Address Set`
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	AUTO FOCUS	One AF
4	STORE → #(01~53) → STORE	Set Preset(1~53)
5	FIND → #(01~53)	Go To Preset(1~53)
6	FIND → #61	Auto Pan 1 On/Off
7	TOUR → #1 or FIND → #57	Pattern 1 On/Off
8	TOUR → #2 or FIND → #58	Pattern 2 On/Off
9	FIND → #59	Pattern 3 On/Off
10	TOUR → #3 or FIND → #60	Scan 1 On/Off
11	TOUR → #4	Scan 2 On/Off
12	FIND → #54	Menu On/Off
13	FIND → #55	Menu Mode : Enter Key
14	FIND → #62	Alarm Reset
15	FIND → #63	Camera Reset
16	Joystick Up	Menu Mode : ↑ Key
17	Joystick Down	Menu Mode : ↓ Key
18	Joystick Left	Menu Mode : ← Key
19	Joystick Right	Menu Mode : → Key

5) Function3

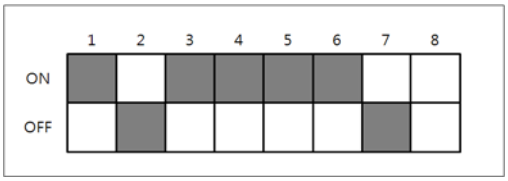
	GE(ASCII Protocol - 9600 BPS only)	SCC-C6XXX, SCC-C7XXX SCP-2XXX, SCP-3XXX
1	#(1~249) → SET	Camera Address Set`
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	Set Preset → #(1~53)	Set Preset(1~53)
4	Go To Preset → #(1~53)	Go To Preset(1~53)
5	Go To Preset → #61	Auto Pan 1 On/Off
6	Go To Preset → #57	Pattern 1 On/Off
7	Go To Preset → #58	Pattern 2 On/Off
8	Go To Preset → #59	Pattern 3 On/Off
9	Go To Preset → #60	Scan 1 On/Off
10	Go To Preset → #54	Menu On/Off
11	Go To Preset → #55	Menu Mode : Enter Key
12	Go To Preset → #62	Alarm Reset
13	Go To Preset → #63	Camera Reset
14	Joystick Up	Menu Mode : ↑ Key
15	Joystick Down	Menu Mode : ↓ Key
16	Joystick Left	Menu Mode : ← Key
17	Joystick Right	Menu Mode : → Key

7. PROTOCOL ID : 13, 14

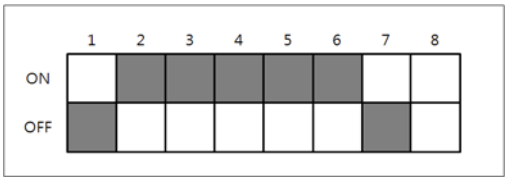
1) Maker : PELCO-D HALF(13) / FULL(14)

2) Dip Switch : Set 1,2,3,4,7 pin of SWICH. (To Select Protocol)

PELCO-D **HALF** Duplex



PELCO-D **FULL** Duplex



※ Refer to SCC-C6XXX, SCC-C7XXX, SCP-2XXX, SCP-3XXX User's Manual

SWITCH 5~6 : Baud Rate(2400BPS Only)

Baud Rate	SWITCH 5	SWITCH 6
2400BPS	ON	ON

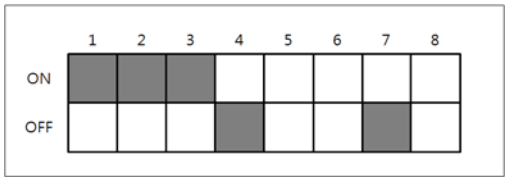
3) Function

	PELCO-D (CM6700 Matfix Switcher)	SCC-C6XXX, SCC-C7XXX SCP-2XXX, SCP-3XXX
1	#(1~16)→CAM	Camera Address Set
2	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
3	#(1~90)→PRESET(hold for two seconds)	Set Preset(1~90)
4	#(1~90)→PRESET	Go To Preset(1~90)
5	#(99)→PRESET	Auto Pan 1 On
6	#(96)→PRESET	Auto Pan 1 Off/ Scan 1 Off
7	#(91)→PRESET or PATTERN	Pattern 1 On/Off
8	#(92)→PRESET	Pattern 2 On/Off
9	#(93)→PRESET	Pattern 3 On/Off
10	#(98)→PRESET	Scan 1 On/Off
11	#(95)→PRESET	Menu On/Off
12	IRIS OPEN	Menu Mode : Enter Key
13	#(97)→PRESET	Alarm Reset
14	#(94)→PRESET	Camera Reset
15	Joystick Up	Menu Mode : ↑ Key
16	Joystick Down	Menu Mode : ↓ Key
17	Joystick Left	Menu Mode : ← Key
18	Joystick Right	Menu Mode : → Key

8. PROTOCOL ID : 7

1) Maker : BOSCH HALF

2) Dip Switch : Set 1,2,3,4,7 pin of SWICH. (To Select Protocol)



※ Refer to SCC-C6XXX, SCC-C7XXX, SCP-2XXX, SCP-3XXX User's Manual

SWITCH 5~6 : Baud Rate

Baud Rate	SWITCH 5	SWITCH 6
38400BPS	OFF	OFF
9600BPS	ON	OFF
2400BPS	OFF	ON
1200BPS	ON	ON

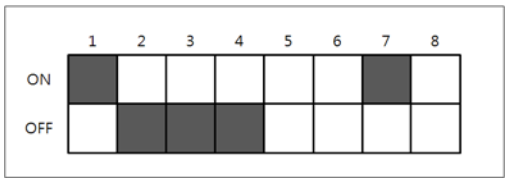
3) Function

	BOSCH (LTC8200/50, LTC5136/60, LTC5138)	SCC-C6XXX, SCC-C7XXX SCP-2XXX, SCP-3XXX
1	Pan/Tilt/Zoom/Focus/Iris	Pan/Tilt/Zoom/Focus/Iris
2	SET → #(1~22) → ENTER	Set Preset(1~22)
3	SHOT → #(1~22) → ENTER	Go To Preset(1~22)
4	SHOT → #(23) → ENTER	Menu On/Off
5	SHOT → #(24) → ENTER	Menu Mode : Enter Key
6	SHOT → #(26) → ENTER	Pattern 1 On/Off
7	SHOT → #(27) → ENTER	Pattern 2 On/Off
8	SHOT → #(28) → ENTER	Pattern 3 On/Off
9	SHOT → #(29) → ENTER	Scan 1 On/Off
10	SHOT → #(30) → ENTER	Auto Pan 1 On/Off
11	SHOT → #(31) → ENTER	Alarm Reset
12	SHOT → #(32) → ENTER	Cam Reset
13	ON → #(8) → ENTER	Scan 1 On
14	ON → #(2) → ENTER	Auto Pan 1 On
15	Joystick Up	Menu Mode : ↑ Key
16	Joystick Down	Menu Mode : ↓ Key
17	Joystick Left	Menu Mode : ← Key
18	Joystick Right	Menu Mode : → Key

9. PROTOCOL ID : 1-1

1) Maker : HONEYWELL HALF

2) Dip Switch : Set 1,2,3,4,7 pin of SWICH. (To Select Protocol)



※ Refer to SCC-C6XXX, SCC-C7XXX, SCP-2XXX, SCP-3XXX User's Manual

SWITCH 5~6 : Baud Rate

Baud Rate	5	6
38400BPS	OFF	OFF
19200BPS	ON	OFF
9600BPS	OFF	ON
4800BPS	ON	ON